

Upper Savannah
Area
Base Labor Market
Analysis



South Carolina
Department of
Commerce
Labor Market Information



November 2008

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EXECUTIVE SUMMARY

Population

The Upper Savannah area's population growth has been slower than the state's.

Future population growth is expected to continue to be slower than the state rate.

The Upper Savannah area attracts workers predominantly from within its borders.

Over half live in Greenwood, Laurens and Newberry counties.

Income

Per capita income growth has been below the state and national rates.

The Upper Savannah area's per capita income remains below the national and state levels.

The Upper Savannah area's average wages are lower than those of the state for all major occupational groups.

Education

The number of degrees awarded by area post-secondary institutions has increased.

The greatest increase has been in the area of healthcare.

Occupations

The personal care and service occupational group is expected to have faster growth in the Upper Savannah area than in the state.

Requirements for the Upper Savannah area's workers are expected to grow in the following levels of education and experience:

Work experience in a related field, postsecondary vocational award, bachelor's degree, degree plus work experience, and master's degree or higher.

Industry

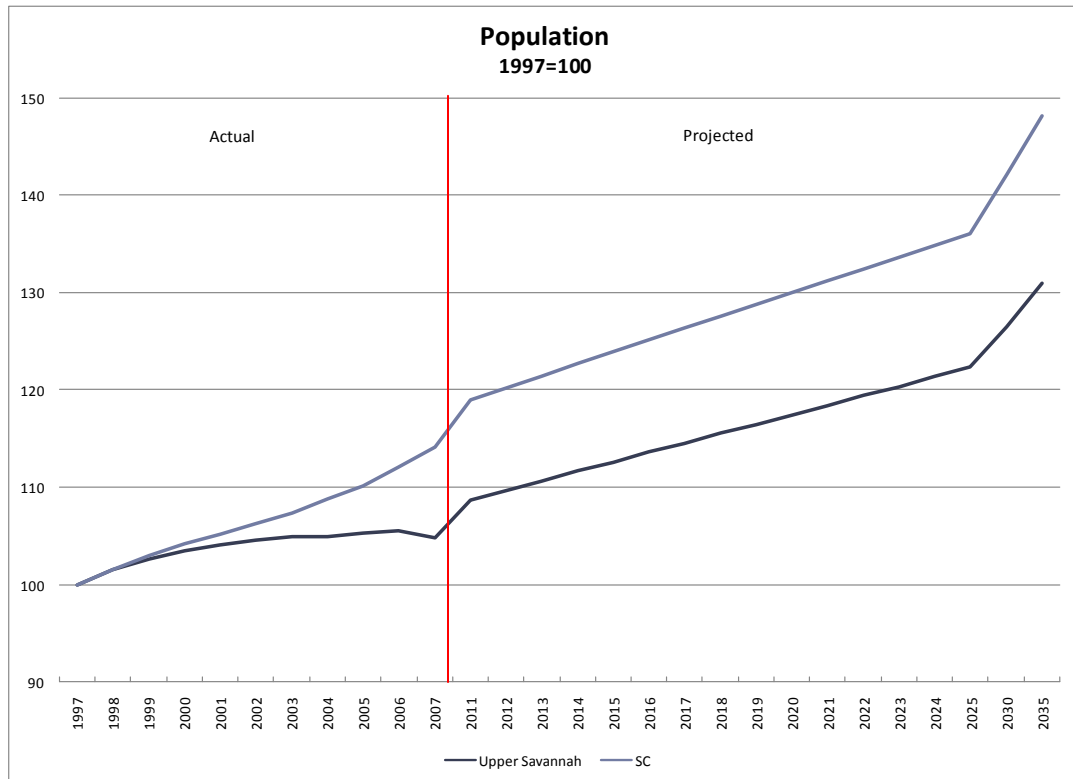
Sectors rated as having potential in various parts of the Upper Savannah area are as follows:

Heavy and civil engineering construction; construction of buildings; food manufacturing; textile mills; chemical manufacturing; plastics and rubber product manufacturing; wood product manufacturing; furniture and related product manufacturing; nonmetallic mineral product manufacturing; fabricated metal product manufacturing; machinery manufacturing; truck transportation; support activities for transportation; telecommunications; management of companies and enterprises; professional, scientific and technical services; and ambulatory healthcare services.

POPULATION

Growth

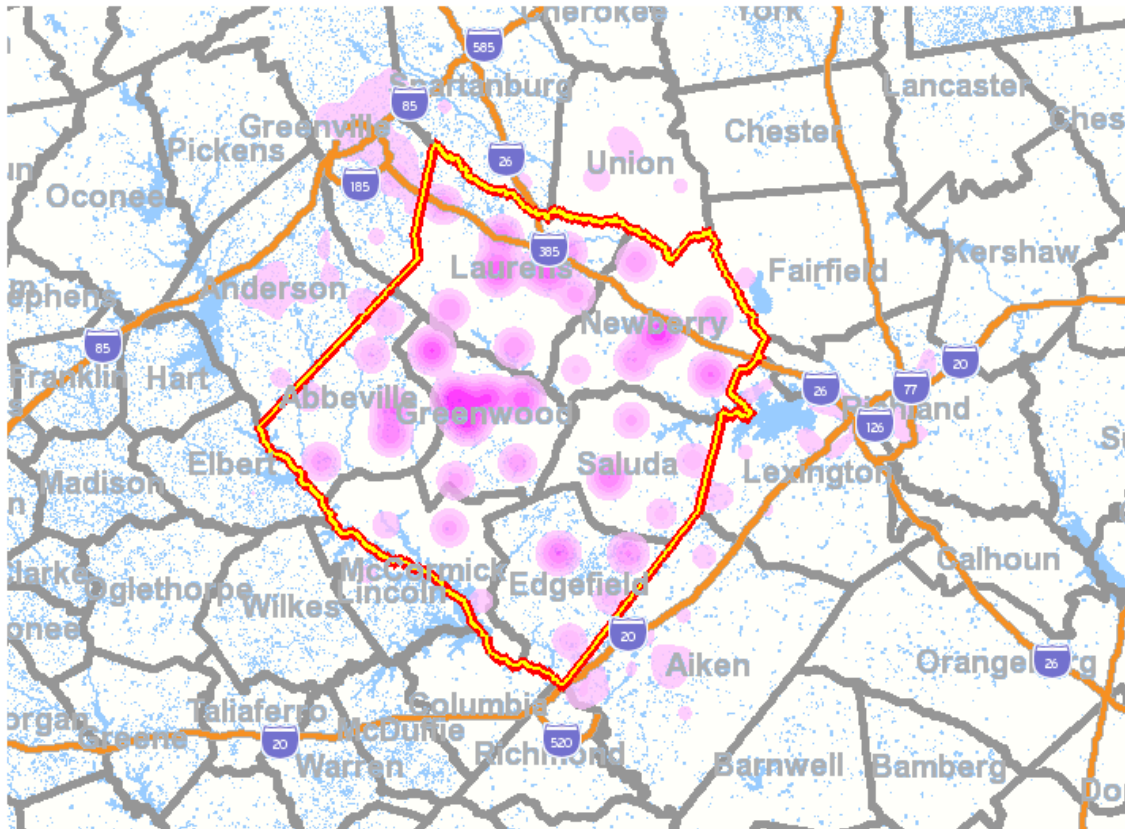
The Upper Savannah area's 2007 population was 255,212. The area population has grown by 4.9% since 1997, compared to 14.2% for South Carolina. Future population growth is expected to continue to be slower than state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Upper Savannah area workers come from (in 2006, latest available data). The Upper Savannah area draws over half of its workers from Greenwood, Laurens and Newberry counties.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	24.0%
31 to 54	57.3%
55 or older	18.7%

Earnings of Workers:

\$1,200 per month or less	26.2%
\$1,201 to \$3,400 per month	51.2%
More than \$3,400 per month	22.6%

States Where Workers Live:

South Carolina	97.2%
Georgia	1.9%
All other locations	0.9%

Counties Where Workers Live:

Greenwood	29.5%
Laurens	14.4%
Newberry	11.1%
Abbeville	7.0%
Edgefield	4.8%
Greenville	4.2%
Saluda	4.0%
Aiken	2.9%
Anderson	2.8%
Lexington	2.7%
All Other Locations	16.8%

Cities Where Workers Live:

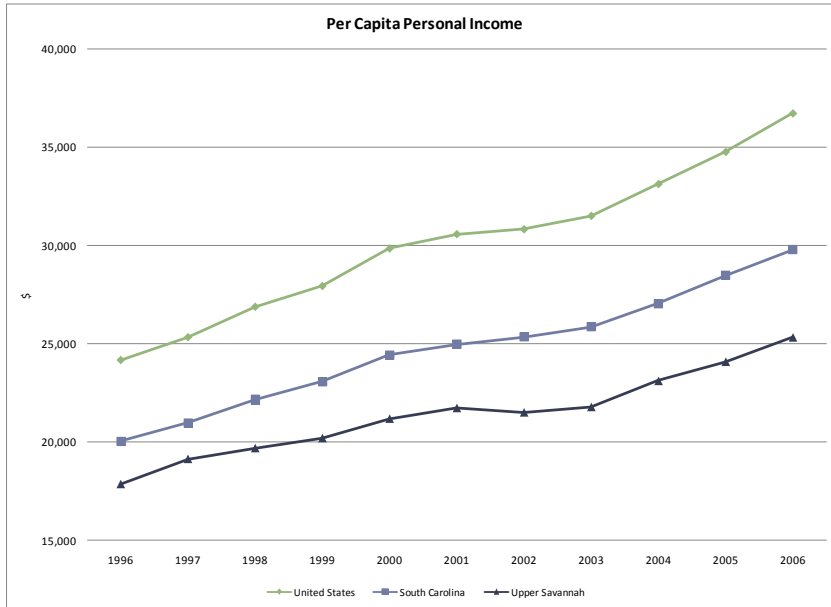
Greenwood, South Carolina	9.9%
Newberry, South Carolina	3.4%
Clinton, South Carolina	2.7%
Laurens, South Carolina	2.5%
Abbeville, South Carolina	2.1%
Edgefield, South Carolina	1.1%
Ninety Six, South Carolina	0.9%
Ware Shoals, South Carolina	0.8%
Columbia, South Carolina	0.8%
Saluda, South Carolina	0.8%
All Other Locations	75.0%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

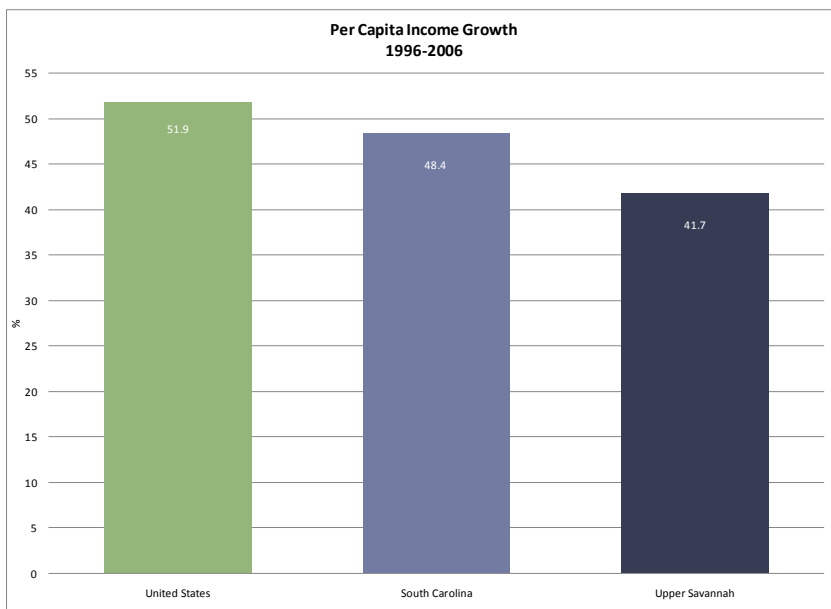
Per Capita Income

The Upper Savannah area's per capita income fell farther behind the state and national levels from 1996 to 2006.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

As reflected above, the Upper Savannah area's per capita income growth was below both South Carolina's and the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

The Upper Savannah area's average wages are below those of South Carolina (\$590 vs. \$680 in 2007). Average wages were up 14% in the Upper Savannah area over the past five years, compared to 18% for the state. All major sectors except arts, entertainment and recreation had growth over the past five years, led by construction and transportation and warehousing.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		590	517	14
Construction	23	731	577	27
Manufacturing	31-33	727	627	16
Retail Trade	44-45	395	350	13
Transportation and Warehousing	48-49	680	535	27
Information	51	749	617	21
Finance and Insurance	52	671	595	13
Real Estate and Rental and Leasing	53	419	345	22
Administration & Support & Waste Management & Remediation Services	56	345	308	12
Arts, Entertainment, and Recreation	71	272	304	-11
Accommodation and Food Services	72	200	197	1
Other Services (Except Public Administration)	81	405	386	5
Federal Government		1,008	833	21
State Government		590	527	12
Local Government		622	528	18

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in the Upper Savannah area are lower than South Carolina's in all major occupational groups.

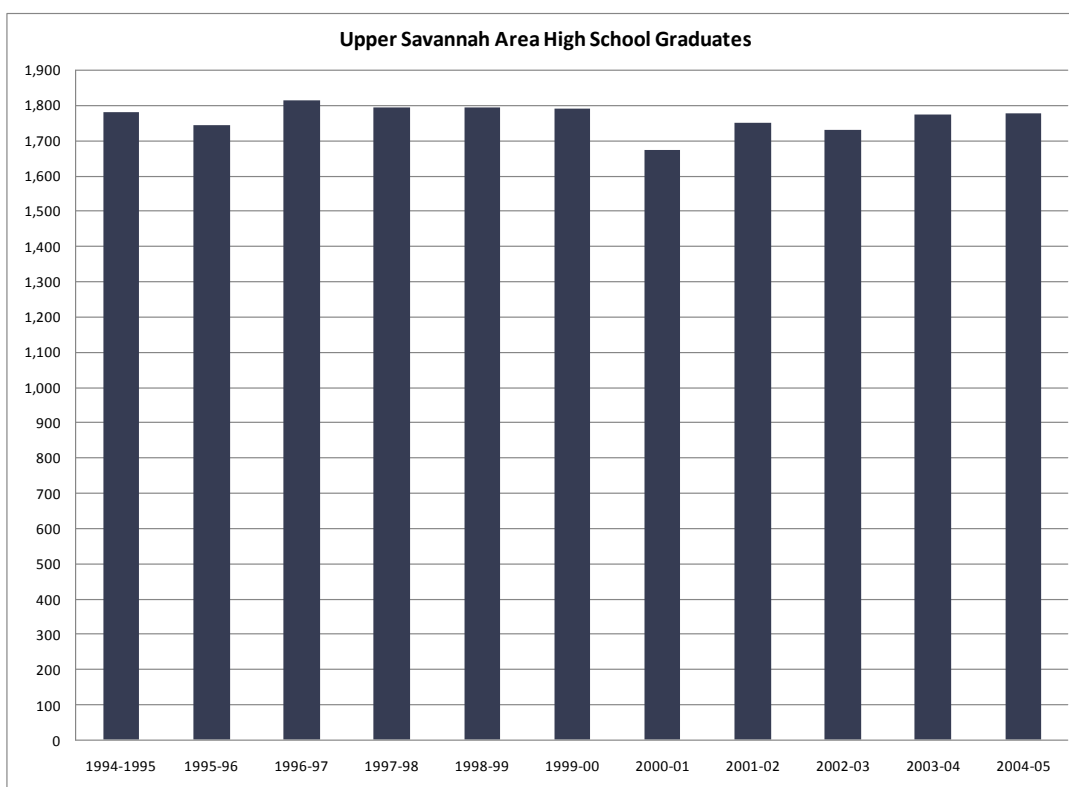
Occupation	2007 Upper Savannah Area Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	15.35	28.78
Business and financial operations occupations	15.25	20.28
Computer and mathematical science occupations	19.09	26.20
Architecture and engineering occupations	21.61	30.22
Life, physical and social science occupations	19.37	22.76
Community and social services occupations	13.02	13.18
Legal occupations	19.64	30.68
Education, training and library occupations	22.47	24.42
Arts, design, entertainment, sports and media occupations	9.78	12.66
Healthcare practitioners and technical occupations	24.93	30.64
Healthcare support occupations	9.36	10.55
Protective service occupations	13.78	13.87
Food preparation and serving related occupations	7.36	7.90
Building and grounds cleaning and maintenance occupations	7.48	8.42
Personal care and service occupations	7.57	8.39
Sales and related occupations	9.55	13.48
Office and administrative support occupations	10.56	13.22
Farming, fishing, and forestry occupations	10.11	13.07
Construction and extraction occupations	12.24	16.51
Installation, maintenance and repair occupations	13.31	16.88
Production occupations	12.04	15.21
Transportation and material moving occupations	10.32	12.94

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Upper Savannah area students receiving high school diplomas decreased by 5—or 0.3%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 1,776 people received high school diplomas in the Upper Savannah area in 2005. The Upper Savannah area had 51 more 12th grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 114 (to 188) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Over 6,200 more students graduated from higher educational institutions in the Upper Savannah area in 2006 than in 1996, an increase of 34%. The greatest numerical increase was in the healthcare field.

Program	1996	2006	Change	% Change
Agriculture, agriculture operations, and related sciences	27	68	41	152
Area, ethnic, cultural, and gender studies	23	31	8	35
Biological and biomedical sciences	625	601	-24	-4
Business, management, marketing, and related support services	3,136	3,976	840	27
Communication, journalism, and related programs	337	624	287	85
Communications technologies/technicians and support services	10	25	15	150
Computer and information sciences and support services	335	979	644	192
Construction trades	117	125	8	7
Education	2,016	2,363	347	17
Engineering technologies/technicians	297	318	21	7
Engineering	302	323	21	7
English language and literature/letters	408	427	19	5
Family and consumer sciences/human sciences	235	278	43	18
Foreign languages, literatures, and linguistics	149	162	13	9
Health professions and related clinical sciences	3,189	5,194	2,005	63
Legal professions and studies	396	448	52	13
Liberal arts and sciences, general studies and humanities	1,205	1,208	3	0
Library science	185	200	15	8
Mathematics and statistics	120	160	40	33
Mechanic and repair technologies/technicians	730	1,058	328	45
Multi/interdisciplinary studies	155	271	116	75
Natural resources and conservation	--	10		
Parks, recreation, leisure, and fitness studies	155	360	205	132
Personal and culinary services	47	180	133	283
Philosophy and religious studies	66	179	113	171
Physical sciences	242	214	-28	-12
Precision production	357	291	-66	-18
Psychology	539	712	173	32
Public administration and social service professions	347	488	141	41
Science technologies/technicians	6	13	7	117
Security and protective services	514	550	36	7
Social sciences and history	1,037	1,343	306	30
Theology and religious vocations	486	574	88	18
Transportation and materials moving	90	129	39	43
Visual and performing arts	372	592	220	59
TOTAL	18,255	24,474	6,219	34

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Aiken Technical College, Allen University, Anderson University, Augusta Area Dietetic Internship-University Hospital (Georgia), Augusta State University (Georgia), Augusta Technical College (Georgia), Benedict College, Beta Tech, Bob Jones University, Claflin University, Columbia College, Columbia International University, Converse College, Erskine College and Seminary, Forrest Junior College, Furman University, Georgia Military College-Augusta Campus (Georgia), Greenville Technical College, ITT Technical Institute-Greenville, Lander University, Lutheran Theological Southern Seminary, Medical College of Georgia, Midlands Technical College, Newberry College, North Greenville University, Paine College (Augusta), Piedmont Technical College, Presbyterian College, Savannah River College (Georgia), South University, Spartanburg Community College, Spartanburg Methodist College, Tri-County Technical College, University of Phoenix-Columbia Campus, University of South Carolina-Aiken, University of South Carolina-Columbia, University of South Carolina-Upstate, W L Bonner College, and Wofford College.

OCCUPATIONS

Occupational Projections

The personal care and service occupational group is projected to grow faster in the Upper Savannah area than in the state.

See **Appendix A** for detailed occupational information.

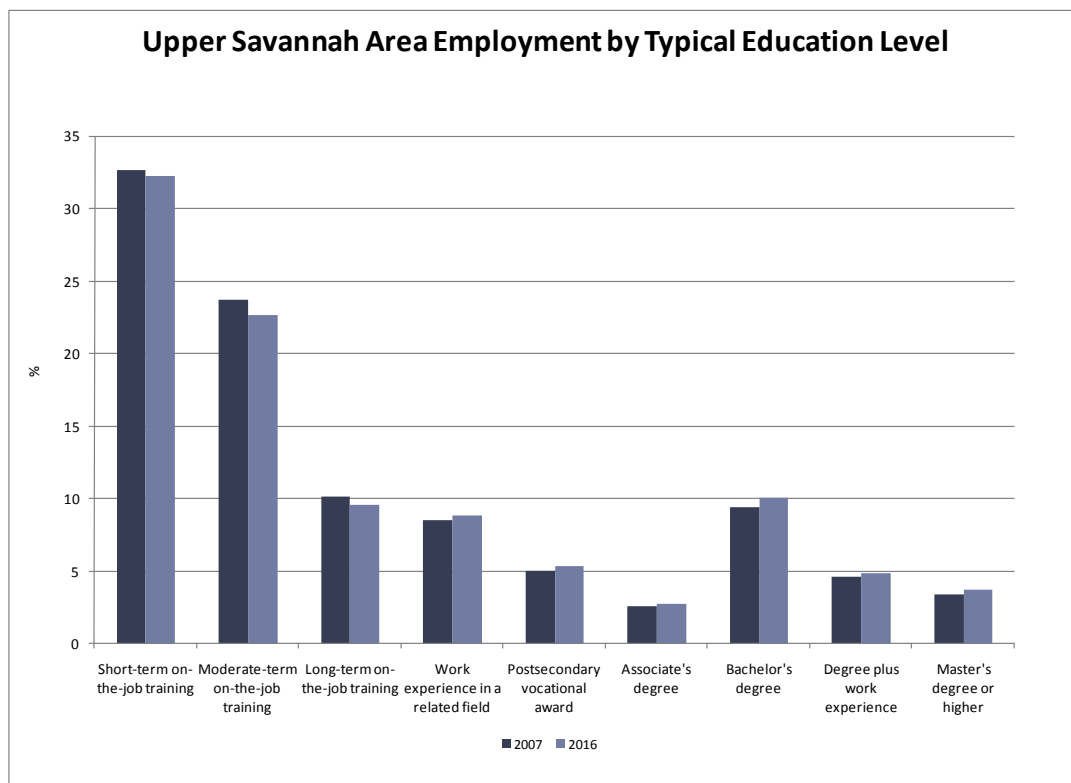
Occupation	2007-2016 Upper Savannah Area Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	9	17
Business and financial operations occupations	19	22
Computer and mathematical science occupations	20	23
Architecture and engineering occupations	7	15
Life, physical and social science occupations	12	15
Community and social services occupations	6	15
Legal occupations	15	21
Education, training, and library occupations	10	16
Arts, design, entertainment, sports and media occupations	10	17
Healthcare practitioners and technical occupations	16	24
Healthcare support occupations	17	25
Protective service occupations	8	18
Food preparation and serving related occupations	7	13
Building and grounds cleaning and maintenance occupations	14	23
Personal care and service occupations	9	7
Sales and related occupations	9	19
Office and administrative support occupations	3	13
Farming, fishing, and forestry occupations	6	16
Construction and extraction occupations	7	19
Installation, maintenance and repair occupations	5	17
Production occupations	-8%	10
Transportation and material moving occupations	3	11

Source: Economic Modeling Specialists, Inc.

Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as business professionals and healthcare practitioners in the Upper Savannah area. Based on employment projections, the Upper Savannah area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Bachelor's degree
- Degree plus work experience
- Master's degree or higher



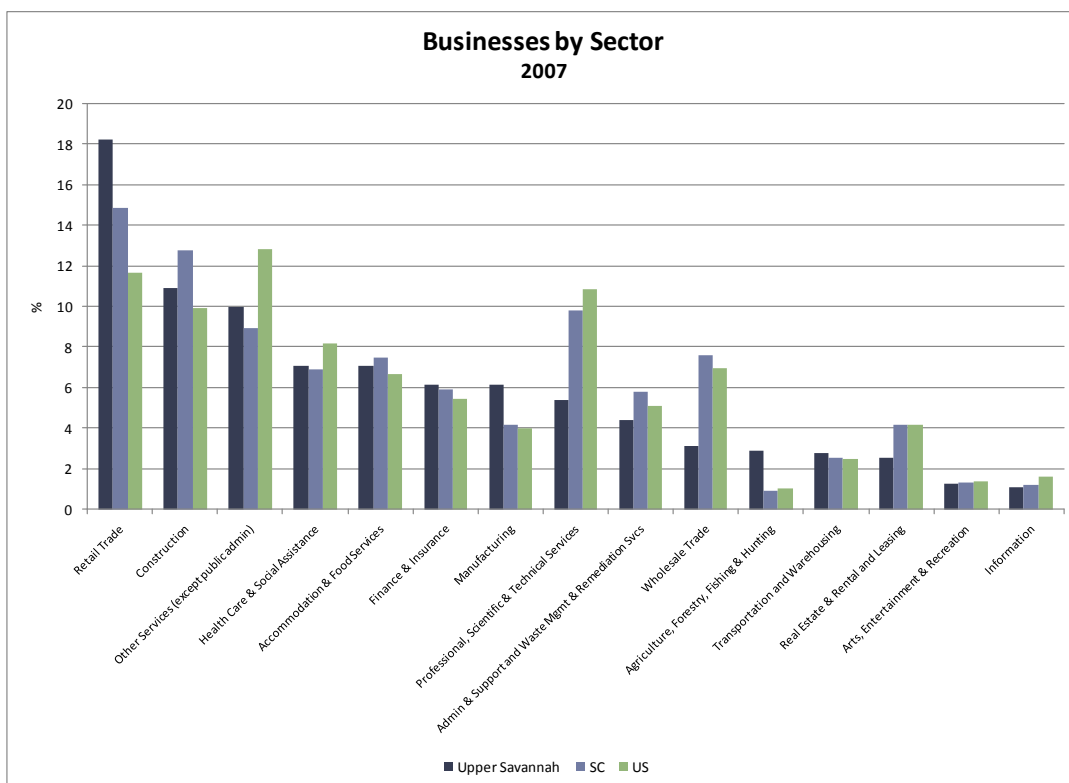
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

The Upper Savannah area had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Retail trade
- Finance and insurance
- Manufacturing
- Agriculture and forestry
- Transportation and warehousing



Source: U.S. Department of Labor, Bureau of Labor Statistics.

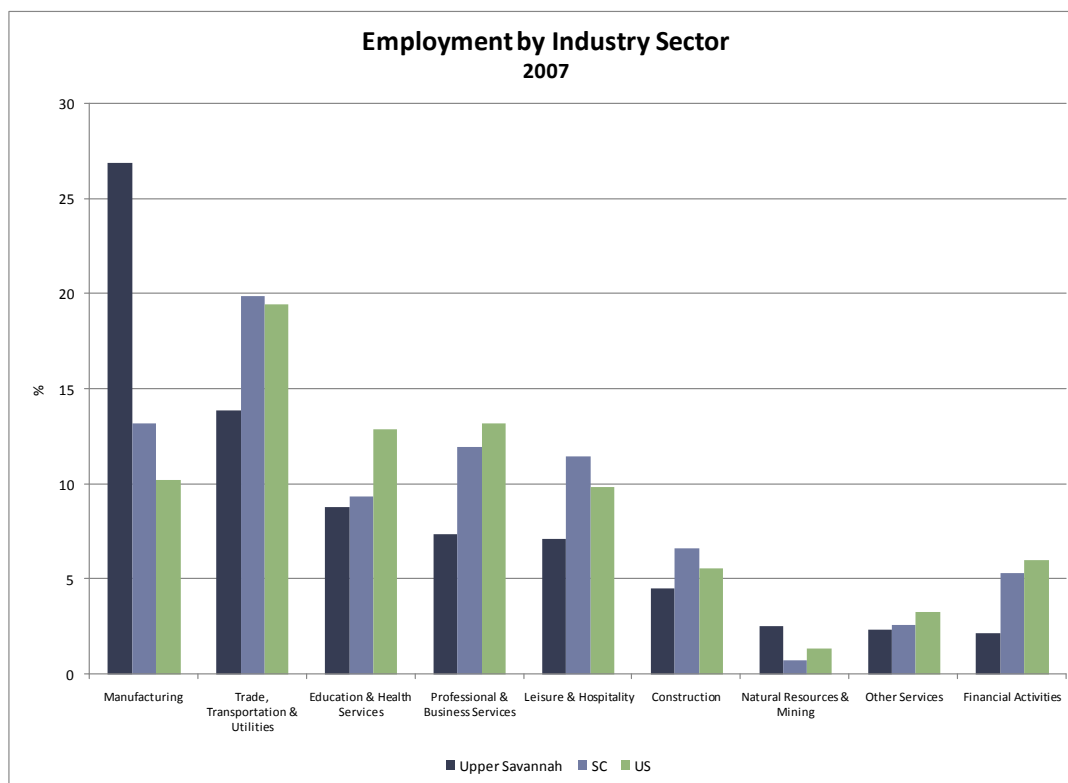
Growth in Number of Businesses

The number of private businesses in the Upper Savannah area fell 7% from 2002 to 2007, compared to a 2% drop for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Upper Savannah area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

Employment by Sector

Compared to South Carolina and the United States, the Upper Savannah area's employment is more concentrated in manufacturing and natural resources and mining.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

For each county in the Upper Savannah area, industry sectors with available data were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth | Competitive effect ¹ |
| • 2002-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)


Industries of Note

Based on the analyses for each county in the Upper Savannah area, the following sectors of note were identified (and the counties for which they were significant):

- Heavy and civil engineering construction (Greenwood, Newberry)
- Construction of buildings (McCormick)
- Food manufacturing (Saluda)
- Textile mills (Edgefield)
- Chemical manufacturing (Greenwood)
- Plastics and rubber product manufacturing (Laurens)
- Wood product manufacturing (Greenwood, Laurens, Newberry)
- Furniture and related product manufacturing (Abbeville)
- Nonmetallic mineral product manufacturing (Greenwood, Laurens)

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

- 
- Fabricated metal product manufacturing (Abbeville, Greenwood, Laurens)
 - Machinery manufacturing (Newberry)
 - Truck transportation (Laurens, Newberry)
 - Support activities for transportation (Laurens)
 - Telecommunications (Laurens)
 - Management of companies and enterprises (Greenwood)
 - Professional, scientific and technical services (Saluda)
 - Ambulatory healthcare services (Greenwood)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Upper Savannah area's labor market. We hope that it will help in advancing the progress of the Upper Savannah area's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Upper Savannah Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is the Upper Savannah area's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to the Upper Savannah area and its communities?*

Over and above pure economic considerations, what is important to the citizens of the Upper Savannah area? How does Upper Savannah want to be perceived? What quality of life issues affect Upper Savannah? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Upper Savannah Area

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-2011	Advertising and promotions managers	15	16	1	7	0.44	19.62	Degree plus work experience
11-2021	Marketing managers	56	65	9	16	0.43	25.93	Degree plus work experience
11-2022	Sales managers	113	123	10	9	0.50	27.00	Degree plus work experience
11-2031	Public relations managers	31	36	5	16	0.89	22.02	Degree plus work experience
11-3011	Administrative services managers	122	131	9	7	0.79	20.14	Degree plus work experience
11-3021	Computer and information systems managers	67	76	9	13	0.37	29.68	Degree plus work experience
11-3031	Financial managers	248	275	27	11	0.59	27.91	Degree plus work experience
11-3041	Compensation and benefits managers	27	30	3	11	0.91	24.32	Degree plus work experience
11-3042	Training and development managers	21	24	3	14	0.99	21.70	Degree plus work experience
11-3049	Human resources managers, all other	22	25	3	14	0.56	26.74	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-3051	Industrial production managers	184	167	-17	-9	1.92	32.56	Work experience in a related field
11-3061	Purchasing managers	28	27	-1	-4	0.67	32.79	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	65	75	10	15	1.00	23.35	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	850	932	82	10	2.67	10.20	Degree plus work experience
11-9012	Farmers and ranchers	3,028	3,062	34	1	2.86	6.55	Long-term on-the-job training
11-9021	Construction managers	469	545	76	16	1.01	13.31	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	78	94	16	21	0.92	9.39	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	232	254	22	9	1.25	34.15	Degree plus work experience
11-9033	Education administrators, postsecondary	180	216	36	20	1.57	25.80	Degree plus work experience
11-9039	Education administrators, all other	73	93	20	27	1.15	15.75	Degree plus work experience
11-9041	Engineering managers	91	91	0	0	0.78	33.10	Degree plus work experience
11-9051	Food service managers	244	316	72	30	0.88	10.15	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-9061	Funeral directors	34	31	-3	-9	1.85	16.33	Associate's degree
11-9081	Lodging managers	105	132	27	26	1.16	12.02	Work experience in a related field
11-9111	Medical and health services managers	173	191	18	10	0.90	25.31	Degree plus work experience
11-9131	Postmasters and mail superintendents	25	24	-1	-4	1.59	27.85	Work experience in a related field
11-9141	Property, real estate, and community association managers	332	457	125	38	0.46	7.30	Bachelor's degree
11-9151	Social and community service managers	55	62	7	13	0.60	13.83	Bachelor's degree
11-9199	Managers, all other	665	854	189	28	0.66	9.30	Work experience in a related field
11-1011	Chief executives	599	705	106	18	0.87	23.80	Degree plus work experience
11-1021	General and operations managers	1,098	1,077	-21	-2	0.99	28.92	Degree plus work experience
11-1031	Legislators	134	132	-2	-1	3.52	8.78	Degree plus work experience
13-1011	Agents and business managers of artists, performers, and athletes	10	14	4	40	--	--	Degree plus work experience
13-1022	Wholesale and retail buyers, except farm products	54	55	1	2	0.53	14.79	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1023	Purchasing agents, except wholesale, retail, and farm products	149	146	-3	-2	0.82	20.05	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	39	43	4	10	0.21	16.85	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	94	98	4	4	0.65	15.80	Long-term on-the-job training
13-1051	Cost estimators	105	114	9	9	0.71	18.97	Work experience in a related field
13-1061	Emergency management specialists	15	17	2	13	1.58	17.26	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	125	143	18	14	0.98	13.09	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	66	77	11	17	0.87	15.38	Bachelor's degree
13-1073	Training and development specialists	88	102	14	16	0.65	15.04	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	58	69	11	19	0.40	19.01	Bachelor's degree
13-1081	Logisticians	21	26	5	24	0.37	25.21	Bachelor's degree
13-1111	Management analysts	304	481	177	58	0.50	16.97	Degree plus work experience
13-1121	Meeting and convention planners	26	34	8	31	0.46	8.73	Bachelor's degree
13-1199	Business operation specialists, all other	162	197	35	22	0.25	17.37	Bachelor's degree
13-2011	Accountants and auditors	647	721	74	11	0.66	16.30	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-2021	Appraisers and assessors of real estate	141	185	44	31	0.53	8.52	Postsecondary vocational award
13-2031	Budget analysts	17	19	2	12	0.43	21.13	Bachelor's degree
13-2041	Credit analysts	24	23	-1	-4	0.55	15.82	Bachelor's degree
13-2051	Financial analysts	53	75	22	42	0.23	10.82	Bachelor's degree
13-2052	Personal financial advisors	184	266	82	45	0.41	8.51	Bachelor's degree
13-2053	Insurance underwriters	17	17	0	0	0.25	12.66	Bachelor's degree
13-2071	Loan counselors	38	38	0	0	1.17	12.74	Bachelor's degree
13-2072	Loan officers	177	183	6	3	0.76	15.57	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	17	17	0	0	0.41	19.23	Bachelor's degree
13-2082	Tax preparers	39	38	-1	-3	0.54	7.84	Moderate-term on-the-job training
13-2099	Financial specialists, all other	21	17	-4	-19	0.20	12.07	Bachelor's degree
15-1011	Computer and information scientists, research	10	13	3	30	0.24	15.21	Doctoral degree
15-1021	Computer programmers	172	162	-10	-6	0.58	19.22	Bachelor's degree
15-1031	Computer software engineers, applications	104	148	44	42	0.31	25.14	Bachelor's degree
15-1032	Computer software engineers, systems software	42	56	14	33	0.17	22.89	Bachelor's degree
15-1041	Computer support specialists	175	195	20	11	0.50	12.93	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
15-1051	Computer systems analysts	137	175	38	28	0.43	21.06	Bachelor's degree
15-1061	Database administrators	37	46	9	24	0.47	20.62	Bachelor's degree
15-1071	Network and computer systems administrators	75	92	17	23	0.36	20.76	Bachelor's degree
15-1081	Network systems and data communications analysts	60	90	30	50	0.33	16.39	Bachelor's degree
15-1099	Computer specialists, all other	28	34	6	21	0.20	18.13	Associate's degree
15-2031	Operations research analysts	15	17	2	13	0.37	22.06	Master's degree
17-1011	Architects, except landscape and naval	35	37	2	6	0.37	22.12	Bachelor's degree
17-1012	Landscape architects	23	24	1	4	0.52	16.60	Bachelor's degree
17-1022	Surveyors	37	40	3	8	0.96	15.45	Bachelor's degree
17-2041	Chemical engineers	31	36	5	16	1.66	28.55	Bachelor's degree
17-2051	Civil engineers	96	101	5	5	0.53	23.19	Bachelor's degree
17-2071	Electrical engineers	95	103	8	8	1.00	22.24	Bachelor's degree
17-2072	Electronics engineers, except computer	21	26	5	24	0.24	24.65	Bachelor's degree
17-2081	Environmental engineers	19	24	5	26	0.58	21.73	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	32	33	1	3	1.91	22.56	Bachelor's degree
17-2112	Industrial engineers	425	470	45	11	3.42	26.44	Bachelor's degree
17-2131	Materials engineers	14	15	1	7	0.96	18.30	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-2141	Mechanical engineers	120	118	-2	-2	0.85	25.65	Bachelor's degree
17-2161	Nuclear engineers	25	27	2	8	1.43	31.95	Bachelor's degree
17-2199	Engineers, all other	28	30	2	7	0.25	27.60	Bachelor's degree
17-3011	Architectural and civil drafters	26	25	-1	-4	0.36	17.75	Postsecondary vocational award
17-3012	Electrical and electronics drafters	22	23	1	5	0.88	14.89	Postsecondary vocational award
17-3013	Mechanical drafters	43	39	-4	-9	0.89	23.73	Postsecondary vocational award
17-3022	Civil engineering technicians	23	24	1	4	0.42	13.69	Associate's degree
17-3023	Electrical and electronic engineering technicians	131	144	13	10	1.29	10.14	Associate's degree
17-3025	Environmental engineering technicians	12	15	3	25	0.78	14.76	Associate's degree
17-3026	Industrial engineering technicians	92	96	4	4	2.00	15.33	Associate's degree
17-3027	Mechanical engineering technicians	21	22	1	5	0.72	18.60	Associate's degree
17-3029	Engineering technicians, except drafters, all other	14	14	0	0	0.29	20.58	Associate's degree
17-3031	Surveying and mapping technicians	53	56	3	6	1.00	8.60	Moderate-term on-the-job training
19-1031	Conservation scientists	14	15	1	7	0.98	22.68	Bachelor's degree
19-1032	Foresters	32	28	-4	-13	3.09	24.25	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
19-2031	Chemists	68	65	-3	-4	1.38	22.78	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	38	50	12	32	0.65	14.04	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	39	54	15	38	1.36	14.15	Master's degree
19-3021	Market research analysts	40	51	11	28	0.24	15.37	Bachelor's degree
19-3022	Survey researchers	18	22	4	22	0.44	12.42	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	54	61	7	13	0.51	20.82	Doctoral degree
19-3032	Industrial-organizational psychologists	16	21	5	31	0.32	14.45	Master's degree
19-3039	Psychologists, all other	18	23	5	28	0.33	17.96	Master's degree
19-3051	Urban and regional planners	10	11	1	10	--	--	Master's degree
19-4011	Agricultural and food science technicians	13	15	2	15	0.89	12.08	Associate's degree
19-4021	Biological technicians	17	21	4	24	0.39	14.31	Associate's degree
19-4031	Chemical technicians	52	47	-5	-10	1.30	15.63	Associate's degree
19-4051	Nuclear technicians	38	34	-4	-11	8.03	25.15	Associate's degree
19-4091	Environmental science and protection technicians, including health	27	35	8	30	1.24	15.39	Associate's degree
19-4093	Forest and conservation technicians	35	35	0	0	2.01	15.01	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	27	28	1	4	0.45	17.94	Master's degree
21-1012	Educational, vocational, and school counselors	192	210	18	9	1.17	20.51	Master's degree
21-1013	Marriage and family therapists	12	13	1	8	0.46	16.30	Master's degree
21-1014	Mental health counselors	17	19	2	12	0.24	14.30	Master's degree
21-1015	Rehabilitation counselors	72	72	0	0	0.79	14.27	Master's degree
21-1021	Child, family, and school social workers	295	306	11	4	1.61	12.95	Bachelor's degree
21-1022	Medical and public health social workers	110	117	7	6	1.33	15.21	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
21-1023	Mental health and substance abuse social workers	44	45	1	2	0.52	12.84	Master's degree
21-1029	Social workers, all other	71	75	4	6	1.46	15.19	Bachelor's degree
21-1091	Health educators	31	35	4	13	0.75	17.63	Master's degree
21-1092	Probation officers and correctional treatment specialists	30	32	2	7	0.52	23.40	Bachelor's degree
21-1093	Social and human service assistants	130	142	12	9	0.60	10.04	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	27	31	4	15	0.35	12.77	Bachelor's degree
21-2011	Clergy	207	214	7	3	1.25	7.14	Master's degree
21-2021	Directors, religious activities and education	99	103	4	4	1.30	6.87	Bachelor's degree
21-2099	Religious workers, all other	44	47	3	7	1.28	6.93	Bachelor's degree
23-1011	Lawyers	193	232	39	20	0.36	23.75	First professional degree
23-1023	Judges, magistrate judges, and magistrates	62	63	1	2	3.61	20.48	Degree plus work experience
23-2011	Paralegals and legal assistants	70	81	11	16	0.45	12.77	Associate's degree
23-2091	Court reporters	17	19	2	12	0.73	16.48	Postsecondary vocational award
23-2092	Law clerks	14	16	2	14	0.47	11.13	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	19	21	2	11	0.40	9.98	Moderate-term on-the-job training
23-2099	Legal support workers, all other	12	15	3	25	0.39	14.91	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-1099	Postsecondary teachers	1,431	1,759	328	23	1.45	38.47	Doctoral degree
25-2011	Preschool teachers, except special education	280	292	12	4	0.86	10.39	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	211	231	20	9	1.78	23.11	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,221	1,332	111	9	1.20	23.17	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	619	664	45	7	1.43	22.94	Bachelor's degree
25-2023	Vocational education teachers, middle school	31	40	9	29	1.08	22.32	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	688	709	21	3	1.02	25.15	Bachelor's degree
25-2032	Vocational education teachers, secondary school	140	133	-7	-5	2.03	26.04	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	170	189	19	11	1.20	25.02	Bachelor's degree
25-2042	Special education teachers, middle school	64	71	7	11	0.99	24.39	Bachelor's degree
25-2043	Special education teachers, secondary school	87	91	4	5	0.97	25.75	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	68	79	11	16	0.74	18.85	Bachelor's degree
25-3021	Self-enrichment education teachers	138	163	25	18	0.80	13.44	Work experience in a related field
25-3099	Teachers and instructors, all other	714	763	49	7	1.80	11.92	Bachelor's degree
25-4011	Archivists	12	13	1	8	2.23	27.11	Master's degree
25-4012	Curators	12	14	2	17	1.51	25.39	Master's degree
25-4013	Museum Technicians and Conservators	11	12	1	9	1.35	21.83	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-4021	Librarians	128	130	2	2	1.30	21.53	Master's degree
25-4031	Library technicians	111	118	7	6	1.51	8.76	Postsecondary vocational award
25-9011	Audio-visual collections specialists	17	20	3	18	1.24	11.98	Moderate-term on-the-job training
25-9021	Farm and home management advisors	22	28	6	27	1.23	13.86	Bachelor's degree
25-9031	Instructional coordinators	128	157	29	23	1.48	24.03	Master's degree
25-9041	Teacher assistants	988	1,036	48	5	1.14	9.38	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	32	38	6	19	0.41	13.68	Bachelor's degree
27-1011	Art directors	31	39	8	26	0.38	8.56	Degree plus work experience
27-1012	Craft artists	28	35	7	25	0.45	7.22	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	28	35	7	25	0.42	7.41	Long-term on-the-job training
27-1014	Multi-media artists and animators	31	40	9	29	0.39	8.04	Bachelor's degree
27-1019	Artists and related workers, all other	31	39	8	26	0.48	7.86	Long-term on-the-job training
27-1021	Commercial and industrial designers	24	28	4	17	0.51	10.70	Bachelor's degree
27-1022	Fashion designers	15	18	3	20	0.41	7.89	Associate's degree
27-1023	Floral designers	46	46	0	0	0.74	7.45	Moderate-term on-the-job training
27-1024	Graphic designers	58	62	4	7	0.36	11.77	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-1025	Interior designers	23	28	5	22	0.39	9.47	Associate's degree
27-1026	Merchandise displayers and window trimmers	23	28	5	22	0.33	8.62	Moderate-term on-the-job training
27-1027	Set and exhibit designers	15	19	4	27	0.46	7.39	Bachelor's degree
27-1029	Designers, all other	15	19	4	27	0.44	7.58	Bachelor's degree
27-2011	Actors	13	18	5	38	0.23	7.06	Long-term on-the-job training
27-2012	Producers and directors	20	26	6	30	0.25	8.69	Degree plus work experience
27-2021	Athletes and sports competitors	12	15	3	25	0.45	9.10	Long-term on-the-job training
27-2022	Coaches and scouts	132	148	16	12	1.06	15.72	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	13	16	3	23	0.48	8.45	Long-term on-the-job training
27-2041	Music directors and composers	66	78	12	18	0.61	6.65	Degree plus work experience
27-2042	Musicians and singers	120	138	18	15	0.78	7.09	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	23	27	4	17	0.37	7.62	Long-term on-the-job training
27-3011	Radio and television announcers	19	17	-2	-11	0.57	10.74	Long-term on-the-job training
27-3022	Reporters and correspondents	25	23	-2	-8	0.67	9.32	Degree plus work experience
27-3031	Public relations specialists	77	90	13	17	0.44	12.77	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-3041	Editors	29	33	4	14	0.30	11.25	Bachelor's degree
27-3042	Technical writers	11	14	3	27	0.30	20.09	Bachelor's degree
27-3043	Writers and authors	110	147	37	34	0.45	7.01	Bachelor's degree
27-3091	Interpreters and translators	42	35	-7	-17	0.46	11.47	Long-term on-the-job training
27-3099	Media and communication workers, all other	32	23	-9	-28	0.37	10.46	Long-term on-the-job training
27-4012	Broadcast technicians	12	12	0	0	0.50	10.43	Associate's degree
27-4021	Photographers	187	142	-45	-24	0.40	8.98	Long-term on-the-job training
27-4099	Media and communication equipment workers, all other	12	13	1	8	0.77	25.27	Moderate-term on-the-job training
29-1011	Chiropractors	23	32	9	39	0.61	17.41	First professional degree
29-1021	Dentists, general	40	38	-2	-5	0.67	50.88	First professional degree
29-1031	Dietitians and nutritionists	43	45	2	5	0.97	18.86	Bachelor's degree
29-1041	Optometrists	24	34	10	42	0.78	25.47	First professional degree
29-1051	Pharmacists	142	196	54	38	0.90	43.33	First professional degree
29-1069	Physicians and surgeons	445	467	22	5	0.85	59.44	First professional degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1071	Physician assistants	25	27	2	8	0.59	31.07	Bachelor's degree
29-1081	Podiatrists	10	12	2	20	--	--	First professional degree
29-1111	Registered nurses	1,416	1,572	156	11	0.92	23.86	Associate's degree
29-1122	Occupational therapists	55	61	6	11	0.83	25.58	Master's degree
29-1123	Physical therapists	66	77	11	17	0.54	28.78	Master's degree
29-1125	Recreational therapists	15	15	0	0	0.99	13.66	Bachelor's degree
29-1126	Respiratory therapists	69	76	7	10	1.11	19.60	Associate's degree
29-1127	Speech-language pathologists	69	74	5	7	0.83	20.29	Master's degree
29-1129	Therapists, all other	13	16	3	23	0.38	14.52	Bachelor's degree
29-1131	Veterinarians	33	38	5	15	0.74	21.09	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	19	22	3	16	0.34	23.30	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	93	129	36	39	0.91	19.41	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	50	60	10	20	0.54	13.85	Associate's degree
29-2021	Dental hygienists	74	82	8	11	0.71	20.94	Associate's degree
29-2031	Cardiovascular technologists and technicians	25	29	4	16	0.83	19.63	Associate's degree
29-2032	Diagnostic medical sonographers	24	29	5	21	0.78	26.48	Associate's degree
29-2033	Nuclear medicine technologists	12	14	2	17	0.88	35.07	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2034	Radiologic technologists and technicians	116	142	26	22	0.93	20.68	Associate's degree
29-2041	Emergency medical technicians and paramedics	241	456	215	89	1.95	12.89	Postsecondary vocational award
29-2051	Dietetic technicians	29	32	3	10	1.85	13.58	Moderate-term on-the-job training
29-2052	Pharmacy technicians	226	232	6	3	1.21	10.58	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	14	13	-1	-7	1.19	15.43	Associate's degree
29-2055	Surgical technologists	57	63	6	11	1.08	14.12	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	33	36	3	9	0.71	12.25	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	508	535	27	5	1.13	15.07	Postsecondary vocational award
29-2071	Medical records and health information technicians	75	80	5	7	0.73	10.76	Associate's degree
29-2081	Opticians, dispensing	42	61	19	45	0.87	12.83	Long-term on-the-job training
29-2091	Orthotists and prosthetists	15	17	2	13	1.61	28.89	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	28	31	3	11	0.56	15.32	Postsecondary vocational award
29-9011	Occupational health and safety specialists	46	50	4	9	1.55	14.79	Bachelor's degree
31-1011	Home health aides	675	880	205	30	1.18	8.40	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
31-1012	Nursing aides, orderlies, and attendants	1,158	1,270	112	10	1.27	8.59	Postsecondary vocational award
31-1013	Psychiatric aides	40	55	15	38	0.49	7.69	Short-term on-the-job training
31-2011	Occupational therapist assistants	21	22	1	5	1.25	18.99	Associate's degree
31-2012	Occupational therapist aides	14	14	0	0	2.37	11.10	Short-term on-the-job training
31-2021	Physical therapist assistants	29	33	4	14	0.79	19.14	Associate's degree
31-2022	Physical therapist aides	13	14	1	8	0.47	9.76	Short-term on-the-job training
31-9011	Massage therapists	37	23	-14	-38	0.56	6.97	Postsecondary vocational award
31-9091	Dental assistants	105	116	11	10	0.60	12.83	Moderate-term on-the-job training
31-9092	Medical assistants	246	286	40	16	0.89	11.29	Moderate-term on-the-job training
31-9093	Medical equipment preparers	15	17	2	13	0.43	9.76	Short-term on-the-job training
31-9094	Medical transcriptionists	43	45	2	5	0.71	12.66	Postsecondary vocational award
31-9095	Pharmacy aides	43	50	7	16	1.14	7.36	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	26	28	2	8	0.50	7.77	Short-term on-the-job training
31-9099	Healthcare support workers, all other	136	186	50	37	1.10	11.66	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-1011	First-line supervisors/managers of correctional officers	25	27	2	8	0.83	19.46	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	71	76	5	7	1.24	20.11	Work experience in a related field
33-1021	First-line supervisors/managers of fire fighting and prevention workers	45	48	3	7	1.24	19.41	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	26	27	1	4	0.79	18.01	Work experience in a related field
33-2011	Fire fighters	169	182	13	8	0.96	12.19	Long-term on-the-job training
33-3011	Bailiffs	13	14	1	8	1.00	10.13	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	497	568	71	14	1.96	13.65	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	51	58	7	14	0.79	17.71	Work experience in a related field
33-3051	Police and sheriff's patrol officers	509	545	36	7	1.39	14.54	Long-term on-the-job training
33-9011	Animal control workers	11	12	1	9	1.06	14.82	Moderate-term on-the-job training
33-9021	Private detectives and investigators	23	27	4	17	0.52	13.51	Work experience in a related field
33-9032	Security guards	332	329	-3	-1	0.51	11.33	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-9091	Crossing guards	20	20	0	0	0.47	9.73	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	56	63	7	13	0.78	9.55	Short-term on-the-job training
33-9099	Protective service workers, all other	52	56	4	8	1.01	10.97	Short-term on-the-job training
35-1011	Chefs and head cooks	68	75	7	10	0.87	10.81	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	530	561	31	6	0.98	11.03	Work experience in a related field
35-2011	Cooks, fast food	478	486	8	2	1.32	6.76	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	447	459	12	3	1.78	7.24	Moderate-term on-the-job training
35-2013	Cooks, private household	14	17	3	21	1.12	6.84	Long-term on-the-job training
35-2014	Cooks, restaurant	429	466	37	9	0.78	7.92	Long-term on-the-job training
35-2015	Cooks, short order	138	141	3	2	1.19	6.76	Short-term on-the-job training
35-2019	Cooks, all other	22	25	3	14	1.27	8.35	Moderate-term on-the-job training
35-2021	Food preparation workers	466	496	30	6	0.84	7.25	Short-term on-the-job training
35-3011	Bartenders	147	168	21	14	0.45	7.71	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	1,439	1,587	148	10	0.89	6.67	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	233	238	5	2	0.69	6.72	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
35-3031	Waiters and waitresses	954	1,030	76	8	0.65	6.69	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	95	108	13	14	0.82	7.60	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	108	116	8	7	0.43	6.86	Short-term on-the-job training
35-9021	Dishwashers	249	265	16	6	0.78	6.83	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	130	140	10	8	0.60	7.03	Short-term on-the-job training
35-9099	Food preparation and serving related workers, all other	17	18	1	6	0.51	7.08	Short-term on-the-job training
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	234	256	22	9	1.00	9.00	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	128	146	18	14	1.38	11.50	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,386	1,411	25	2	0.98	7.78	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	1,630	2,047	417	26	1.24	6.65	Short-term on-the-job training
37-2019	Building cleaning workers, all other	307	377	70	23	0.98	6.56	Short-term on-the-job training
37-2021	Pest control workers	68	66	-2	-3	1.15	12.24	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	629	637	8	1	0.97	7.96	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	133	177	44	33	2.06	6.75	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	136	181	45	33	2.04	6.90	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
37-3019	Grounds maintenance workers, all other	136	183	47	35	2.25	6.71	Short-term on-the-job training
39-1011	Gaming supervisors	13	16	3	23	0.44	7.07	Work experience in a related field
39-1012	Slot key persons	11	13	2	18	0.48	6.97	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	145	133	-12	-8	0.95	10.80	Work experience in a related field
39-2011	Animal trainers	88	91	3	3	1.46	6.90	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	181	149	-32	-18	0.77	7.08	Short-term on-the-job training
39-3012	Gaming and sports book writers and runners	26	31	5	19	1.89	7.84	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	28	30	2	7	0.44	6.97	Short-term on-the-job training
39-3091	Amusement and recreation attendants	151	156	5	3	0.98	6.81	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	48	56	8	17	1.58	7.71	Moderate-term on-the-job training
39-4021	Funeral attendants	80	81	1	1	3.83	9.19	Short-term on-the-job training
39-5012	Hairdressers, hairstylists, and cosmetologists	216	124	-92	-43	0.62	7.40	Postsecondary vocational award
39-5092	Manicurists and pedicurists	14	10	-4	-29	--	--	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
39-6021	Tour guides and escorts	14	16	2	14	0.52	7.05	Moderate-term on-the-job training
39-9011	Child care workers	1,365	1,647	282	21	1.19	6.78	Short-term on-the-job training
39-9021	Personal and home care aides	504	615	111	22	0.86	7.59	Short-term on-the-job training
39-9031	Fitness trainers and aerobics instructors	145	171	26	18	0.86	11.59	Postsecondary vocational award
39-9032	Recreation workers	191	211	20	10	0.88	7.72	Short-term on-the-job training
39-9041	Residential advisors	60	64	4	7	1.73	8.79	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	48	34	-14	-29	0.60	7.65	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	1,623	1,758	135	8	1.15	10.74	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	383	470	87	23	0.66	15.92	Work experience in a related field
41-2011	Cashiers, except gaming	2,383	2,233	-150	-6	1.07	6.73	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	29	35	6	21	0.73	10.01	Short-term on-the-job training
41-2021	Counter and rental clerks	170	184	14	8	0.58	7.39	Short-term on-the-job training
41-2022	Parts salespersons	94	99	5	5	0.65	12.36	Moderate-term on-the-job training
41-2031	Retail salespersons	2,400	2,603	203	8	0.77	8.63	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
41-3011	Advertising sales agents	41	45	4	10	0.30	12.94	Moderate-term on-the-job training
41-3021	Insurance sales agents	292	336	44	15	0.63	8.49	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	154	206	52	34	0.36	10.75	Bachelor's degree
41-3041	Travel agents	13	19	6	46	0.18	8.75	Postsecondary vocational award
41-3099	Sales representatives, services, all other	150	198	48	32	0.32	11.12	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	168	203	35	21	0.51	19.53	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	648	717	69	11	0.64	19.96	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	46	52	6	13	0.59	8.92	Moderate-term on-the-job training
41-9012	Models	14	14	0	0	0.51	6.74	Moderate-term on-the-job training
41-9021	Real estate brokers	552	753	201	36	0.52	7.39	Work experience in a related field
41-9022	Real estate sales agents	595	798	203	34	0.52	7.09	Postsecondary vocational award
41-9031	Sales engineers	16	18	2	13	0.32	29.43	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
41-9041	Telemarketers	45	43	-2	-4	0.20	9.46	Short-term on-the-job training
41-9091	Door-to-door sales workers, news and street vendors, and related workers	457	399	-58	-13	0.65	6.57	Short-term on-the-job training
41-9099	Sales and related workers, all other	102	113	11	11	0.47	6.87	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	822	835	13	2	0.86	14.42	Work experience in a related field
43-2011	Switchboard operators, including answering service	83	69	-14	-17	0.81	9.21	Short-term on-the-job training
43-3011	Bill and account collectors	155	169	14	9	0.60	9.25	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	268	266	-2	-1	0.81	10.42	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	1,095	1,184	89	8	0.79	10.30	Moderate-term on-the-job training
43-3051	Payroll and timekeeping clerks	132	126	-6	-5	1.03	11.63	Moderate-term on-the-job training
43-3061	Procurement clerks	50	48	-2	-4	1.02	11.88	Short-term on-the-job training
43-3071	Tellers	275	286	11	4	0.72	9.58	Short-term on-the-job training
43-4011	Brokerage clerks	23	26	3	13	0.50	21.03	Moderate-term on-the-job training
43-4031	Court, municipal, and license clerks	59	62	3	5	0.86	11.35	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	27	24	-3	-11	0.61	8.43	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-4051	Customer service representatives	932	1,090	158	17	0.66	9.56	Moderate-term on-the-job training
43-4061	Eligibility interviewers, government programs	11	11	0	0	0.17	16.18	Moderate-term on-the-job training
43-4071	File clerks	104	67	-37	-36	0.73	7.50	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	85	86	1	1	0.60	7.28	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	92	99	7	8	0.59	10.23	Short-term on-the-job training
43-4121	Library assistants, clerical	55	58	3	5	0.76	8.70	Short-term on-the-job training
43-4131	Loan interviewers and clerks	59	57	-2	-3	0.38	9.32	Short-term on-the-job training
43-4141	New accounts clerks	25	19	-6	-24	0.45	13.00	Work experience in a related field
43-4151	Order clerks	88	67	-21	-24	0.55	9.42	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	155	163	8	5	1.49	13.09	Short-term on-the-job training
43-4171	Receptionists and information clerks	509	548	39	8	0.71	9.32	Short-term on-the-job training
43-4199	Information and record clerks, all other	79	67	-12	-15	0.54	13.21	Short-term on-the-job training
43-5021	Couriers and messengers	88	103	15	17	0.45	7.67	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	84	99	15	18	1.39	10.66	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-5032	Dispatchers, except police, fire, and ambulance	95	120	25	26	0.79	12.43	Moderate-term on-the-job training
43-5041	Meter readers, utilities	32	30	-2	-6	1.07	10.38	Short-term on-the-job training
43-5051	Postal service clerks	43	42	-1	-2	0.89	20.28	Short-term on-the-job training
43-5052	Postal service mail carriers	235	227	-8	-3	1.11	19.44	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	52	47	-5	-10	0.42	16.05	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	252	248	-4	-2	1.42	13.99	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	452	453	1	0	0.96	11.18	Short-term on-the-job training
43-5081	Stock clerks and order fillers	926	820	-106	-11	0.82	8.85	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	74	60	-14	-19	1.52	9.52	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	802	881	79	10	0.76	11.65	Moderate-term on-the-job training
43-6012	Legal secretaries	153	170	17	11	0.69	9.34	Postsecondary vocational award
43-6013	Medical secretaries	278	300	22	8	0.87	11.54	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,289	1,260	-29	-2	0.99	10.11	Moderate-term on-the-job training
43-9011	Computer operators	62	47	-15	-24	0.79	11.32	Moderate-term on-the-job training

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43-9021	Data entry keyers	95	90	-5	-5	0.45	7.59	Moderate-term on-the-job training
43-9022	Word processors and typists	45	47	2	4	0.40	8.75	Moderate-term on-the-job training
43-9031	Desktop publishers	15	17	2	13	0.49	11.25	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	52	50	-2	-4	0.33	10.16	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	44	36	-8	-18	0.47	8.41	Short-term on-the-job training
43-9061	Office clerks, general	1,684	1,787	103	6	0.86	8.68	Short-term on-the-job training
43-9199	Office and administrative support workers, all other	67	65	-2	-3	0.37	9.02	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	110	108	-2	-2	2.86	16.19	Work experience in a related field
45-2011	Agricultural inspectors	14	14	0	0	1.40	19.25	Work experience in a related field
45-2021	Animal breeders	11	12	1	9	1.99	7.16	Short-term on-the-job training
45-2041	Graders and sorters, agricultural products	77	81	4	5	2.22	8.55	Work experience in a related field
45-2091	Agricultural equipment operators	74	87	13	18	1.71	7.95	Moderate-term on-the-job training
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	703	844	141	20	1.64	7.88	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
45-2093	Farmworkers, farm and ranch animals	119	143	24	20	1.97	9.93	Short-term on-the-job training
45-2099	Agricultural workers, all other	28	31	3	11	2.02	8.18	Short-term on-the-job training
45-3011	Fishers and related fishing workers	34	41	7	21	0.55	6.55	Moderate-term on-the-job training
45-4011	Forest and conservation workers	37	40	3	8	4.07	10.90	Moderate-term on-the-job training
45-4021	Fallers	172	120	-52	-30	12.78	11.32	Moderate-term on-the-job training
45-4022	Logging equipment operators	226	179	-47	-21	8.66	13.17	Moderate-term on-the-job training
45-4023	Log graders and scalers	43	44	1	2	3.61	15.54	Moderate-term on-the-job training
45-4029	Logging workers, all other	46	46	0	0	3.61	12.70	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	733	806	73	10	1.09	15.68	Work experience in a related field
47-2021	Brickmasons and blockmasons	83	80	-3	-4	0.86	13.57	Long-term on-the-job training
47-2022	Stonemasons	29	34	5	17	0.82	10.18	Long-term on-the-job training
47-2031	Carpenters	1,026	1,140	114	11	0.96	11.77	Long-term on-the-job training
47-2041	Carpet installers	22	26	4	18	0.57	10.36	Moderate-term on-the-job training

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47-2042	Floor layers, except carpet, wood, and hard tiles	22	25	3	14	0.81	10.16	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	22	26	4	18	0.95	9.97	Moderate-term on-the-job training
47-2044	Tile and marble setters	37	42	5	14	0.71	10.77	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	92	95	3	3	0.66	11.31	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	12	13	1	8	1.16	10.90	Long-term on-the-job training
47-2061	Construction laborers	828	904	76	9	0.91	9.95	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	30	33	3	10	0.74	11.26	Moderate-term on-the-job training
47-2072	Pile-driver operators	20	24	4	20	1.00	9.23	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	326	342	16	5	1.19	12.31	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	35	40	5	14	0.32	11.24	Moderate-term on-the-job training
47-2082	Tapers	27	31	4	15	0.59	10.67	Moderate-term on-the-job training
47-2111	Electricians	401	369	-32	-8	0.86	13.08	Long-term on-the-job training

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47-2121	Glaziers	15	17	2	13	0.42	12.14	Long-term on-the-job training
47-2132	Insulation workers, mechanical	16	17	1	6	0.83	15.46	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	299	345	46	15	0.85	10.20	Moderate-term on-the-job training
47-2151	Pipelayers	87	90	3	3	1.23	11.01	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	286	302	16	6	0.93	13.61	Long-term on-the-job training
47-2161	Plasterers and stucco masons	13	14	1	8	0.33	12.86	Long-term on-the-job training
47-2181	Roofers	175	171	-4	-2	1.50	10.94	Moderate-term on-the-job training
47-2211	Sheet metal workers	121	122	1	1	1.10	14.66	Long-term on-the-job training
47-2221	Structural iron and steel workers	55	56	1	2	1.24	16.47	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	44	36	-8	-18	1.17	9.53	Short-term on-the-job training
47-3012	Helpers, carpenters	106	110	4	4	1.75	10.11	Short-term on-the-job training
47-3013	Helpers, electricians	84	66	-18	-21	1.30	9.12	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	80	82	2	3	1.50	12.03	Short-term on-the-job training
47-3016	Helpers, roofers	13	11	-2	-15	0.86	11.70	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	13	14	1	8	0.58	8.75	Short-term on-the-job training

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47-4011	Construction and building inspectors	51	56	5	10	0.65	15.21	Work experience in a related field
47-4021	Elevator installers and repairers	10	10	0	0	0.65	28.29	Long-term on-the-job training
47-4031	Fence erectors	15	17	2	13	0.63	9.81	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	14	18	4	29	0.58	15.71	Moderate-term on-the-job training
47-4051	Highway maintenance workers	40	43	3	8	0.47	11.00	Moderate-term on-the-job training
47-4061	Rail-track laying and maintenance equipment operators	10	11	1	10	1.17	14.79	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	23	25	2	9	1.29	13.49	Moderate-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	373	390	17	5	1.31	16.68	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	43	51	8	19	0.38	13.35	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	47	60	13	28	0.36	18.81	Long-term on-the-job training
49-2092	Electric motor, power tool, and related repairers	16	14	-2	-13	1.03	13.86	Postsecondary vocational award
49-2093	Electrical and electronics installers and repairers, transportation equipment	14	14	0	0	1.26	20.30	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-2094	Electrical and electronics repairers, commercial and industrial equipment	94	87	-7	-7	1.93	19.01	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	18	22	4	22	1.22	31.82	Postsecondary vocational award
49-2096	Electronic equipment installers and repairers, motor vehicles	10	11	1	10	0.77	12.48	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	24	28	4	17	0.64	10.33	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	12	13	1	8	0.27	14.25	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	33	32	-1	-3	0.43	24.39	Postsecondary vocational award
49-3021	Automotive body and related repairers	79	79	0	0	0.67	13.24	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	10	10	0	0	--	--	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	585	659	74	13	1.12	10.44	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	171	192	21	12	1.00	12.59	Postsecondary vocational award
49-3041	Farm equipment mechanics	11	17	6	55	0.51	14.62	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	64	71	7	11	0.80	13.88	Postsecondary vocational award

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49-3043	Rail car repairers	12	13	1	8	0.72	14.81	Long-term on-the-job training
49-3051	Motorboat mechanics	15	17	2	13	0.72	12.84	Long-term on-the-job training
49-3052	Motorcycle mechanics	18	21	3	17	1.00	10.41	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	21	23	2	10	0.85	13.14	Moderate-term on-the-job training
49-3093	Tire repairers and changers	68	89	21	31	1.11	9.19	Short-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	41	47	6	15	1.52	25.05	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	150	162	12	8	0.71	13.10	Long-term on-the-job training
49-9031	Home appliance repairers	41	45	4	10	0.81	8.14	Long-term on-the-job training
49-9041	Industrial machinery mechanics	636	603	-33	-5	3.77	13.23	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	1,579	1,602	23	1	1.82	12.62	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	167	138	-29	-17	3.35	10.98	Short-term on-the-job training
49-9044	Millwrights	75	75	0	0	2.47	18.30	Long-term on-the-job training
49-9051	Electrical power-line installers and repairers	97	124	27	28	1.43	21.70	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	75	93	18	24	0.67	14.18	Long-term on-the-job training
49-9062	Medical equipment repairers	21	28	7	33	0.79	16.97	Associate's degree

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49-9091	Coin, vending, and amusement machine servicers and repairers	32	32	0	0	0.76	11.10	Moderate-term on-the-job training
49-9092	Commercial divers	15	18	3	20	0.84	7.70	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	36	42	6	17	2.16	15.58	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	13	16	3	23	0.48	9.41	Moderate-term on-the-job training
49-9097	Signal and track switch repairers	21	23	2	10	1.09	15.33	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	129	131	2	2	1.34	7.89	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	39	44	5	13	0.38	10.47	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	1,007	928	-79	-8	2.33	18.98	Work experience in a related field
51-2021	Coil winders, tapers, and finishers	36	32	-4	-11	2.36	12.44	Short-term on-the-job training
51-2022	Electrical and electronic equipment assemblers	105	90	-15	-14	0.80	14.14	Short-term on-the-job training
51-2023	Electromechanical equipment assemblers	15	16	1	7	0.39	12.50	Short-term on-the-job training
51-2031	Engine and other machine assemblers	50	55	5	10	1.97	16.34	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	106	99	-7	-7	1.54	17.52	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-2091	Fiberglass laminators and fabricators	70	60	-10	-14	2.76	12.17	Moderate-term on-the-job training
51-2092	Team assemblers	2,178	2,167	-11	-1	3.03	10.91	Moderate-term on-the-job training
51-2093	Timing device assemblers, adjusters, and calibrators	17	13	-4	-24	2.16	10.22	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	90	83	-7	-8	0.46	9.61	Moderate-term on-the-job training
51-3011	Bakers	72	86	14	19	0.77	6.92	Long-term on-the-job training
51-3021	Butchers and meat cutters	112	110	-2	-2	1.38	11.25	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	426	459	33	8	4.75	10.55	Short-term on-the-job training
51-3023	Slaughterers and meat packers	655	708	53	8	9.67	9.04	Moderate-term on-the-job training
51-3091	Food and tobacco roasting, baking, and drying machine operators and tenders	11	13	2	18	0.86	8.81	Short-term on-the-job training
51-3092	Food batchmakers	103	124	21	20	1.67	8.40	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	69	66	-3	-4	2.62	10.65	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	159	168	9	6	1.87	15.40	Moderate-term on-the-job training
51-4012	Numerical tool and process control programmers	24	19	-5	-21	2.06	13.72	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	150	137	-13	-9	2.58	13.16	Moderate-term on-the-job training
51-4022	Forging machine setters, operators, and tenders, metal and plastic	30	21	-9	-30	1.55	13.54	Moderate-term on-the-job training
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	52	45	-7	-13	2.14	19.28	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	334	295	-39	-12	2.16	10.86	Moderate-term on-the-job training
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	46	42	-4	-9	1.94	13.21	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	420	352	-68	-16	7.04	13.37	Moderate-term on-the-job training
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	100	87	-13	-13	2.59	19.00	Moderate-term on-the-job training
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	37	29	-8	-22	2.14	13.16	Moderate-term on-the-job training
51-4041	Machinists	382	358	-24	-6	1.51	12.48	Long-term on-the-job training
51-4051	Metal-refining furnace operators and tenders	14	16	2	14	1.05	12.85	Moderate-term on-the-job training
51-4052	Pourers and casters, metal	40	50	10	25	3.70	12.39	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4062	Patternmakers, metal and plastic	12	12	0	0	2.00	16.02	Moderate-term on-the-job training
51-4071	Foundry mold and coremakers	21	25	4	19	1.98	15.34	Moderate-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	224	195	-29	-13	2.47	10.96	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	76	78	2	3	1.36	11.35	Moderate-term on-the-job training
51-4111	Tool and die makers	80	81	1	1	1.39	16.98	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	295	299	4	1	1.17	15.52	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	74	80	6	8	1.60	12.96	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	49	47	-2	-4	2.90	12.01	Moderate-term on-the-job training
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	90	100	10	11	3.35	12.93	Moderate-term on-the-job training
51-4194	Tool grinders, filers, and sharpeners	23	18	-5	-22	1.86	10.94	Moderate-term on-the-job training
51-4199	Metal workers and plastic workers, all other	14	11	-3	-21	0.49	13.46	Moderate-term on-the-job training
51-5011	Bindery workers	58	47	-11	-19	1.44	9.57	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-5021	Job printers	45	39	-6	-13	1.47	15.27	Long-term on-the-job training
51-5022	Prepress technicians and workers	51	40	-11	-22	1.20	15.39	Postsecondary vocational award
51-5023	Printing machine operators	131	126	-5	-4	1.02	13.25	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	134	139	5	4	0.80	7.16	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	131	102	-29	-22	2.94	8.40	Short-term on-the-job training
51-6031	Sewing machine operators	332	205	-127	-38	2.41	8.41	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	10	11	1	10	0.62	7.95	Long-term on-the-job training
51-6051	Sewers, hand	59	66	7	12	1.28	8.79	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	43	48	5	12	0.72	8.13	Long-term on-the-job training
51-6061	Textile bleaching and dyeing machine operators and tenders	147	107	-40	-27	11.73	10.48	Moderate-term on-the-job training
51-6062	Textile cutting machine setters, operators, and tenders	59	51	-8	-14	4.11	11.03	Moderate-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	641	391	-250	-39	28.94	11.15	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	676	429	-247	-37	26.20	9.32	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	146	90	-56	-38	13.50	8.88	Moderate-term on-the-job training
51-6092	Fabric and apparel patternmakers	22	27	5	23	3.20	14.83	Long-term on-the-job training
51-6093	Upholsterers	44	48	4	9	0.69	8.19	Long-term on-the-job training
51-6099	Textile, apparel, and furnishings workers, all other	44	33	-11	-25	2.97	10.85	Short-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	239	201	-38	-16	2.63	11.21	Long-term on-the-job training
51-7021	Furniture finishers	34	32	-2	-6	1.20	13.71	Long-term on-the-job training
51-7031	Model makers, wood	16	10	-6	-38	2.93	9.74	Long-term on-the-job training
51-7041	Sawing machine setters, operators, and tenders, wood	174	153	-21	-12	4.34	14.60	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	235	226	-9	-4	3.92	13.89	Moderate-term on-the-job training
51-7099	Woodworkers, all other	13	11	-2	-15	1.15	11.46	Moderate-term on-the-job training
51-8011	Nuclear power reactor operators	14	18	4	29	3.29	39.11	Long-term on-the-job training
51-8013	Power plant operators	48	59	11	23	2.12	33.78	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	26	26	0	0	0.98	11.74	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	110	120	10	9	1.64	13.66	Long-term on-the-job training
51-8091	Chemical plant and system operators	171	134	-37	-22	5.75	16.28	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9011	Chemical equipment operators and tenders	338	277	-61	-18	10.21	19.18	Moderate-term on-the-job training
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	52	52	0	0	1.83	15.48	Moderate-term on-the-job training
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	42	38	-4	-10	1.57	11.22	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	30	28	-2	-7	1.08	11.07	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	614	517	-97	-16	7.11	14.74	Moderate-term on-the-job training
51-9031	Cutters and trimmers, hand	44	42	-2	-5	2.51	8.65	Short-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	135	133	-2	-1	2.76	10.86	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	175	196	21	12	3.27	9.26	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	86	74	-12	-14	5.41	10.49	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	1,075	924	-151	-14	3.64	11.39	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	47	62	15	32	1.37	14.19	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9083	Ophthalmic laboratory technicians	16	16	0	0	0.74	15.31	Moderate-term on-the-job training
51-9111	Packaging and filling machine operators and tenders	487	446	-41	-8	2.17	9.79	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	139	127	-12	-9	2.13	14.34	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	46	41	-5	-11	1.30	15.56	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	31	25	-6	-19	1.33	10.24	Short-term on-the-job training
51-9131	Photographic process workers	15	10	-5	-33	0.83	12.68	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	48	32	-16	-33	1.36	7.76	Short-term on-the-job training
51-9191	Cementing and gluing machine operators and tenders	52	47	-5	-10	3.62	9.38	Moderate-term on-the-job training
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	35	35	0	0	2.89	11.38	Moderate-term on-the-job training
51-9193	Cooling and freezing equipment operators and tenders	26	27	1	4	2.60	11.54	Moderate-term on-the-job training
51-9195	Molders, shapers, and casters, except metal and plastic	33	30	-3	-9	1.13	10.64	Moderate-term on-the-job training
51-9196	Paper goods machine setters, operators, and tenders	234	212	-22	-9	3.50	14.46	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9197	Tire builders	282	414	132	47	21.10	9.68	Moderate-term on-the-job training
51-9198	Helpers--Production workers	984	938	-46	-5	3.08	8.11	Short-term on-the-job training
51-9199	Production workers, all other	197	210	13	7	1.12	9.14	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	135	150	15	11	1.15	16.54	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	135	156	21	16	0.96	19.64	Work experience in a related field
53-2012	Commercial pilots	12	16	4	33	0.48	17.02	Postsecondary vocational award
53-3011	Ambulance drivers and attendants, except emergency medical technicians	32	50	18	56	2.33	10.43	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	29	33	4	14	0.22	7.22	Moderate-term on-the-job training
53-3022	Bus drivers, school	341	346	5	1	1.15	6.92	Short-term on-the-job training
53-3031	Driver/sales workers	291	316	25	9	0.76	7.86	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	1,424	1,683	259	18	1.19	13.88	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	698	811	113	16	0.96	9.25	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	87	99	12	14	0.42	6.62	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-3099	Motor vehicle operators, all other	11	14	3	27	0.22	15.81	Short-term on-the-job training
53-4019	Locomotive engineers and operators	19	19	0	0	0.63	30.68	Moderate-term on-the-job training
53-4031	Railroad conductors and yardmasters	16	16	0	0	0.85	26.30	Moderate-term on-the-job training
53-6021	Parking lot attendants	16	17	1	6	0.19	7.72	Short-term on-the-job training
53-6031	Service station attendants	15	17	2	13	0.26	13.11	Short-term on-the-job training
53-7011	Conveyor operators and tenders	22	21	-1	-5	0.81	10.95	Short-term on-the-job training
53-7021	Crane and tower operators	26	28	2	8	0.87	15.42	Long-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	48	52	4	8	1.04	12.84	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	820	788	-32	-4	2.08	10.96	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	209	220	11	5	0.95	7.60	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	1,821	1,835	14	1	1.22	8.43	Short-term on-the-job training
53-7063	Machine feeders and offbearers	483	381	-102	-21	5.80	10.48	Short-term on-the-job training
53-7064	Packers and packagers, hand	740	594	-146	-20	1.50	7.92	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	182	193	11	6	2.00	7.81	Short-term on-the-job training
53-7199	Material moving workers, all other	32	31	-1	-3	1.15	8.98	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
		109,177	115,494	6,316	6		12.70	

at least
1.25 greater than \$12.70

Source: EMSI



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